MATTEO RIONDATO

Curriculum vitae

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EDUCATION

Ph.D.	Computer Science, Brown University, 2014
M.Sc.	Computer Science, Brown University, 2010
M.Sc. (Laurea Specialistica)	Computer Engineering, University of Padua (Italy), 2009
B.Sc. (Laurea)	Information Engineering, University of Padua (Italy), 2007

ACADEMIC APPOINTMENTS

2019–	Assistant Professor, Department of Computer Science, Amherst College
2016–	Visiting Faculty (various titles), Department of Computer Science, Brown University
2015	Postdoctoral Research Associate, Department of Computer Science, Brown University
2014–15	Postdoctoral Researcher, Department of Computer Science, Stanford University

INDUSTRY POSITIONS

2015–18	Research Scientist, Labs, Two Sigma Investments LP
2013	Summer Intern Research Scientist, Web Mining Group, Yahoo Research Barcelona

PUBLICATIONS

Authors in alphabetical order unless marked otherwise (*)

Journal Articles

- M. A. U. Nasir, C. Aslay, G. De Francisci Morales, **M. Riondato**. TipTap: Approximate Mining of Frequent k-Subgraph Patterns in Evolving Graphs. *ACM Transactions on Knowledge Discovery from Data*, 15(3):48:1–48:35
- M. Riondato and F. Vandin. MiSoSouP: Mining Interesting Subgroups with Sampling and Pseudodimension. ACM Transactions on Knowledge Discovery from Data, 14(5):56:1-56:30, Invited article to the special issue of the best papers from KDD 2018
- * S. Servan-Schreiber, M. Riondato, and E. Zgraggen. ProSecCo: Progressive Sequence Mining with Convergence Guarantees, *Knowledge and Information Systems*, 62(4):1313–1340, Invited article to the special issue on the best papers from ICDM 2018
- 2019 C. Cousins and **M. Riondato**. CaDET: Interpretable Parametric Conditional Density Estimation with Decision Trees and Forests. *Machine Learning*, 108:1613–1634
- 2018 **M. Riondato** and E. Upfal. ABRA: Approximating Betweenness Centrality in Static and Dynamic Graphs with Rademacher Averages. *ACM Transactions on Knowledge Discovery from Data*, 12(5):61:1–61:38
- L. De Stefani, A. Epasto, **M. Riondato**, and E. Upfal. TRIÉST: Counting Local and Global Triangles in Fully-dynamic Streams with Fixed Memory Size. *ACM Transactions on Knowledge Discovery from Data*, 11(4):43:1–43:50, **Invited article to the special issue on the best papers from KDD 2016**
- * **M. Riondato**, D. García-Soriano, and F. Bonchi. Graph Summarization with Quality Guarantees. *Data Mining and Knowledge Discovery*, 31(2):314–349
- * **M. Riondato** and E. M. Kornaropoulos. Fast Approximation of Betweenness Centrality through Sampling. *Data Mining and Knowledge Discovery*, 30(2):438–475
- M. Riondato and E. Upfal. Efficient Discovery of Association Rules and Frequent Itemsets through Sampling with Tight Performance Guarantees. ACM Transactions on Knowledge Discovery from Data, 8(4):20:1–20:32
- A. Pietracaprina, M. Riondato, E. Upfal, and F. Vandin. Mining Top-k Frequent Itemsets through Progressive Sampling. *Data Mining and Knowledge Discovery*, 21(2):310–326, Invited article to the special issue on the best papers from ECML PKDD 2010

Conference Proceedings

* G. Preti, G. De Francisci Morales, **M. Riondato**. MaNIACS: Approximate Mining of Frequent Subgraph Patterns through Sampling. *Proceedings of the 27th*

- ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), pp. 1348–1358
- * C. Cousins, C. Wohlgemuth, **M. Riondato**. Bavarian: Betweenness Centrality Approximation with Variance-Aware Rademacher Averages. *Proceedings of the 27th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), pp. 196–206
- S. Haddadan, C. Menghini, **M. Riondato**, and E. Upfal. RePBubLik: Reducing the Polarized Bubble Radius with Link Insertions. *Proceedings of the 14th ACM International Conference on Web Search and Data Mining* (WSDM), pp. 139–147 **Best Paper Award Honorable Mention**
- C. Cousins, **M. Riondato**. Sharp uniform convergence bounds through empirical centralization. *Proceedings of the 34th Conference of Neural Information Processing Systems* (NeurIPS), pp. 15123–15132
- * L. Pellegrina, C. Cousins, F. Vandin, and **M. Riondato**. McRapper: Monte-Carlo Rademacher Averages for Poset Families and Approximate Pattern Mining. *Proceedings of the 26th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), pp. 2165–2174
- L. Pellegrina, **M. Riondato**, and F. Vandin. SPuManTE: Significant Pattern Mining with Unconditional Testing. *Proceedings of the 25th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), pp. 1528–1538
- 2019 L. Pellegrina, **M. Riondato**, and F. Vandin. Hypothesis testing and statistically-sound pattern mining. *Proceedings of the 25th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), pp. 3215–3216
- * S. Servan-Schreiber, **M. Riondato**, and E. Zgraggen. ProSecCo: Progressive Sequence Mining with Convergence Guarantees. *Proceedings of the 18th IEEE International Conference on Data Mining* (ICDM), pp. 417–426, **Best Student Paper Award runner-up**
- M. Riondato and F. Vandin. MiSoSouP: Mining Interesting Subgroups with Sampling and Pseudodimension. *Proceedings of the 24th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), pp. 2130–2139
- L. De Stefani, A. Epasto, **M. Riondato**, and E. Upfal. TRIÉST: Counting Local and Global Triangles in Fully-dynamic Streams with Fixed Memory Size.

 Proceedings of the 22nd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), pp. 825–834, **Best Student Paper Award** (Research Track)
- 2016 **M. Riondato** and E. Upfal. ABRA: Approximating Betweenness Centrality in Static and Dynamic Graphs with Rademacher Averages. *Proceedings of the 22nd*

- ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), pp. 1145–1154
- F. Bonchi, G. De Francisci Morales, **M. Riondato**, Centrality Measures on Big Graphs: Exact, Approximated, and Distributed Algorithms. *Proceedings of the 25th International World Wide Web Conference* (WWW), Companion Volume, pp. 1017–1020
- A. Mahmoody, **M. Riondato**, and E. Upfal. Wiggins: Detecting Valuable Information in Dynamic Networks with Limited Resources. *Proceedings of the 9th ACM International Conference on Web Search and Data Mining* (WSDM), pp. 677–686
- 2015 **M. Riondato** and E. Upfal. Mining Frequent Itemsets through Progressive Sampling with Rademacher Averages. *Proceedings of the 21st ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), pp. 1005–1014
- M. Riondato and E. Upfal. VC-Dimension and Rademacher Averages: From Statistical Learning Theory to Sampling Algorithms. *Proceedings of the 21st ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), pp. 2321–2322
- A. Anagnastopoulos, L. Becchetti, A. Fazzone, I. Mele, and **M. Riondato**. The Importance of Being Experts: Efficient Max-Finding in Crowdsourcing. *Proceedings of the 36th ACM SIGMOD International Conference on Management of Data* (SIGMOD), pp. 983–998
- * M. Riondato, D. García-Soriano, and F. Bonchi. Graph Summarization with Quality Guarantees. *Proceedings of the 14th IEEE International Conference on Data Mining* (ICDM), pp. 947–952
- M. Riondato. Sampling-based Data Mining Algorithms: Modern Techniques and Case Studies. *Proceedings of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases* (ECML PKDD), pp. 516–519
- 2014 **M. Riondato** and F. Vandin. Finding the True Frequent Itemsets. *Proceedings of the 14th SIAM International Conference on Data Mining* (SDM), pp. 497–505
- * M. Riondato and E. M. Kornaropoulos. Fast Approximation of Betweenness Centrality through Sampling. *Proceedings of the 7th ACM International Conference on Web Search and Data Mining* (WSDM), pp. 413–422
- * M. Riondato, J. A. DeBrabant, R. Fonseca, and E. Upfal. PARMA: A Parallel Randomized Algorithm for Association Rules Mining in MapReduce.

 Proceedings of the 21st ACM International Conference on Information and Knowledge Management (CIKM), pp. 85–94

- M. Riondato and E. Upfal. Efficient Discovery of Association Rules and Frequent Itemsets through Sampling with Tight Performance Guarantees.

 Proceedings of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD), pp. 25–41
- A. Pietracaprina, G. Pucci, **M. Riondato**, F. Silvestri, and E. Upfal. Space-round Tradeoffs for MapReduce Computations. *Proceedings of the 26th ACM International Conference on Supercomputing* (ICS), pp. 235–244
- 2012 M. Akdere, U. Çetintemel, **M. Riondato**, E. Upfal, and S. B. Zdonik. Learning-based Query Performance Modeling and Prediction. *Proceedings of the 28th IEEE International Conference on Data Engineering* (ICDE), pp. 390–401
- * M. Riondato, M. Akdere, U. Çetintemel, S. B. Zdonik, and E. Upfal. The VC-dimension of SQL Queries and Selectivity Estimation through Sampling.
 Proceedings of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD), pp. 661–676
- M. Akdere, U. Çetintemel, **M. Riondato**, E. Upfal, and S. B. Zdonik. The Case for Predictive Database Systems: Opportunities and Challenges. *Proceedings of the 5th Biennial Conference on Innovative Data System Research* (CIDR), pp. 167–174

Technical Reports

2018 **M. Riondato**. Sharpe Ratio: Estimation, Confidence Intervals, and Hypothesis Testing. *Two Sigma Technical Report Series*, No. 2018-001.

Tutorials

- L. Pellegrina, **M. Riondato**, and F. Vandin. Hypothesis testing and statistically-sound pattern mining. SIAM SDM'21
- 2020 **M. Riondato**. Hypothesis testing and statistically-sound pattern mining. SIAM SDM'20 (co-organized with L. Pellegrina and F. Vandin) (Conference canceled due to COVID-19)
- L. Pellegrina, **M. Riondato,** F. Vandin. Hypothesis testing and statistically-sound pattern mining. ACM KDD'19
- F. Bonchi, G. De Francisci Morales, **M. Riondato**. Centrality Measures in Big Graphs: Exact, Approximated, and Distributed Algorithms. WWW'16
- 2015 **M. Riondato** and E. Upfal. VC-Dimension and Rademacher Averages: From Statistical Learning Theory to Sampling Algorithms. ACM KDD'15, ECML PKDD'15, ACM CIKM'15

Abstracts

2020 **M. Riondato.** Algorithms for Scalable Hypothesis Testing. SIAM Conference on Mathematics of Data Science (*Conference postponed due to COVID-19*)

AWARDS

- 2021 Best Paper Award Honorable Mention at ACM International Conference on Web Search and Data Mining (ACM WSDM'21)
- 2020 Best reviewer award for the journal track of ECML PKDD'20
- 2018 Invited article to the special issue of Knowledge and Information Systems for the best papers of IEEE ICDM'18
- 2018 Best Student Paper Award runner-up at IEEE International Conference on Data Mining (IEEE ICDM'18)
- 2018 Invited article to the special issue of ACM Transactions on Knowledge Discovery from Data for the best papers of ACM KDD'18
- 2018 Invited Young Researcher to the 6th Heidelberg Laureate Forum
- 2016 Best Student Paper Award (Research Track) at ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (ACM KDD'16)
- 2014 Nominated for the ACM SIGKDD Doctoral Dissertation Award
- 2014 Best Student Poster Award at SIAM International Conference on Data Mining (SDM'14)
- 2010 Article selected for the special issue of Data Mining and Knowledge Discovery for the best papers of ECML PKDD'10

GRANTS AND FELLOWSHIPS

- 2020 PI on NSF Award #2006765: III: Small: RUI: Scalable and Iterative Statistical Testing of Multiple Hypotheses on Massive Datasets (USD 373k)
- 2019 PI on NSF Award #1918446: NSF Student Travel Grant for 2019 SIAM International Conference on Data Mining (SDM) (USD 25k)
- 2015 SIAM/NSF Early Career Travel Award to SIAM Intl. Conference on Data Mining
- 2014 SIAM Travel Award to SIAM Intl. Conference on Data Mining
- 2014 Brown University Dissertation Fellowship
- 2013 Yahoo Research Barcelona Summer Internship

- 2011 Italy MIUR Research Fellowship
- 2009 Brown University Graduate Fellowship

INVITED TALKS

- 2021 Communication in Science Panel, Summer Research Undergraduate Fellows Program, Amherst College, Amherst (MA, USA), June 24
- 2021 RePBubLik: Reducing the Polarized Bubble Radius with Link Insertions. Aris Gionis' Research Group Meeting, KTH Royal Institute of Technology, over Zoom, February 18
- 2020 McRapper: Monte-Carlo Rademacher Averages for Poset Families and Approximate Pattern Mining, AI Seminar, Fidelity, over Zoom, October 28
- 2020 McRapper: Monte-Carlo Rademacher Averages for Poset Families and Approximate Pattern Mining, Theory Seminar, UMass Amherst, Amherst (MA, USA), October 6
- 2020 Advancing Science by (not) Testing Billions of Hypotheses, Faculty Colloquium, Amherst College, Amherst (MA, USA), September 25
- 2020 Algorithms for Centrality Measures, CS591 Large-Scale Graph Mining, Boston University, Boston (MA, USA), April 13
- 2019 SPuManTE: Significant Pattern Mining with Unconditional Testing, Network Science Institute, Northeastern University, Boston (MA, USA), November 8
- 2019 Making Better Use of Data, MassMutual Research Bytes series, Amherst (MA, USA), November 5
- 2019 Making Better Use of Data, Data Management Lab, Boston University, Boston (MA, USA), October 25
- 2019 Making Better Use of Data, Department of Computer Science, Mount Holyoke College, South Hadley (MA, USA), October 16
- 2019 CaDET: Interpretable Parametric Conditional Density Estimation with Decision Trees, Workshop on Computation and Statistics in Data Science (CaStleD'19), Bertinoro (FC, Italy), October 1
- 2019 Pseudodimension for Data Analysis, Workshop on Data Science in Low-dimensional Spaces, ICERM, Brown University, Providence (RI, USA), May 17
- 2018 MiSoSouP: Mining Interesting Subgroups with Sampling and Pseudodimension, Google Research NY, New York (NY, USA), December 4
- 2018 Approximation Algorithms for Betweenness Centrality, COMPSCI 134 Networks, Harvard University, Cambridge (MA, USA), November 26

- 2018 Data Mining: Tasks, Systems, Challenges, and Research Directions, Amherst College, Amherst (MA, USA), November 5
- 2018 Statistical Learning Theory meets Data Mining: Fast, High-quality, Sampling-based Approximation Algorithm, ISI Foundation, Turin (Italy), September 8
- 2018 Sampling-based Approximation Algorithms for Data Analysis using Rademacher Averages, Theory of Computation Seminar, Harvard University, Cambridge (MA, USA), May 7
- 2018 Statistical Learning Theory meets Data Mining: Fast, High-quality, Sampling-based Approximation Algorithms, Boston College, Chestnut Hill (MA, USA), January 31
- 2018 Statistical Learning Theory meets Data Mining: Fast, High-quality, Sampling-based Approximation Algorithms, Amherst College, Amherst (MA, USA), January 25
- 2017 Betweenness Centrality Estimation with Rademacher Averages, National Institute of Informatics, Tokyo (Japan), November 16
- 2017 Betweenness Centrality Estimation with Rademacher Averages, Center for Data Science, New York University, New York (NY, USA), May 17
- 2017 Rademacher Averages: Theory and Practice, Dagstuhl Seminar 17141, Schloss Dagstuhl (Germany), April 6
- 2017 Random Sampling for Data Mining: The Case of Triangles in Dynamic Streams, School of Computer Science, McGill University, Montreal (QB, Canada), February 21
- 2017 Random Sampling for Data Mining: The Case of Triangles in Dynamic Streams, College of Computer and Information Science, Northeastern University, Boston (MA, USA), February 15
- 2017 The Neverending Data Streaming, Sampling, and Triangle Counting, Department of Computer Science, Amherst College, Amherst (MA, USA), January 27
- Approximating Betweenness Centrality through Sampling with the Rademacher Averages, Data Management Lab, Boston University, Boston (MA, USA), November 18
- 2016 Algorithmic Data Science = Theory + Practice, IEEE MIT Undergraduate Technology Research Conference, Massachusetts Institute of Technology, Cambridge (MA, USA), November 5
- 2016 TRIÉST: Counting Local and Global Triangles in Fully-dynamic Streams with Fixed Memory Size, Database Group, Carnegie Mellon University, Pittsburgh (PA, USA), October 24
- Approximating Betweenness Centrality through Sampling with the Rademacher Averages, Network Science Institute, Northeastern University, Boston (MA, USA), October 17
- 2016 Graph Summarization with Quality Guarantees, Department of Information Engineering,

- University of Padua, Padua (Italy), September 26
- 2016 ABRA: Venice, Sampling, and Betweenness Centrality Estimation, Social Impact through Network Science (SINS), Venice (Italy), June 8
- 2015 Data is ..., Stevens Institute of Technology, Hoboken (NJ, USA), December 12
- 2015 Travel Pictures from Another World: Statistical Learning Theory Meets Data Mining, Monash University, Melbourne (Australia), October 28
- 2015 Modern Sampling for Modern Data: The Case of Frequent Itemsets Mining, Two Sigma Investments, New York (NY, USA), March 5
- 2014 Statistical Learning and Data Mining: A Lasting Marriage, Data Mining: Beyond The Horizon Workshop, University of Bristol, Bristol (UK), November 20
- 2014 Efficient Frequent Itemsets Mining through Sampling, Database Research Group, University of Waterloo, Waterloo (ON, Canada), May 7
- 2014 Efficient Frequent Itemsets Mining through Sampling, Database Group, MIT CSAIL, Cambridge (MA, USA), April 10
- Taming the Challenges of Big Data with Statistical Data Analytics, Department of Computer Science, Boston College, Boston (MA, USA), February 7
- Fast Betweenness Estimation through Sampling, Data Management Lab, Boston University, Boston (MA, USA), October 17
- 2013 Fast Betweenness Estimation through Sampling, Yahoo! Labs Barcelona, Barcelona (Spain), June 13
- Fast Betweenness Estimation through Sampling, Advanced Computing Group, University of Padua, Padua (Italy), May 30
- 2013 Statistical Learning Theory meets Knowledge Discovery, Brown CS Industrial Partners Program Symposium, Providence (RI, USA), April 25
- 2011 Statistical Learning Theory meets Databases, Advanced Computing Group, University of Padua, Padua (Italy), June 24
- 2010 Top-k Frequent Itemsets Mining through Sampling, Advanced Computing Group, University of Padua, Padua (Italy), September 16
- 2010 Mining Top-K Frequent Itemsets Through Progressive Sampling, Department of Computer Science, Chalmers University of Technology, Gothenburg (Sweden), August 5

ADDITIONAL RESEARCH EXPERIENCE AND VISITS

- National Institute of Informatics (Tokyo, Japan) Visiting Researcher, November
- 2015 Monash University (Melbourne, Australia) Visiting Researcher, October

2012	Sapienza University of Rome (Rome, Italy) – Visiting Ph.D. Student, June–September
2011	University of Padua (Padua, Italy) - Research Fellow, June-September
2010	Chalmers University of Technology (Gothenburg, Sweden) – Visiting Ph.D. Student, August
2008–9	Brown University (Providence, RI, USA) – Visiting Student, October–June

TEACHING EXPERIENCE

Amherst College

Spring '21	COSC-111 Introduction to Computer Science 1
	COSC-254 Data Mining
	COSC-490 Topics in Data Science (special topics, 1 student)
Fall '20	COSC-111 Introduction to Computer Science 1 (2 sections)
	COLQ-390H Learning by Doing: Internship and Fieldwork Reflection
Spring '20	COSC-111 Introduction to Computer Science 1
	COSC-355 Network Science
	COSC-490 Database Implementation (special topics, 2 students)
	COSC-490 Advanced Analytics (special topics, 1 student)
Fall '19	COSC-111 Introduction to Computer Science 1
	COSC-257 Databases
	COSC-490 Regression and Time Series (special topics, 1 student)
	STAT-490H Theory meets Practice (co-taught)
Spring '19	COSC-111 Introduction to Computer Science 1
	COSC-254 Data Mining

Brown University

Spring '18	CSCI-1951-G Optimization Methods in Finance
Spring '16	CSCI-1951-G Optimization Methods in Finance

THESES, STUDENT, AND INTERN SUPERVISION

Honors Theses

2020-21	Isaac Caruso, Modeling Biological Species Presence with Gaussian Processes
2019-20	Kathleen Isenegger, Approximate Mining of High-Utility Itemsets through
	Sampling
	Shukry Zablah, A Parallel Algorithm for Balanced Sampling

Student and Intern Supervision (not including Teaching Assistants)

Steedman Jenkins, research assistant, Amherst College, Summer 2021 – Ongoing Alexander Lee, research assistant, Amherst College, Fall 2020 – Ongoing Holden Lee, research assistant, Amherst College, Spring 2020 – Ongoing Stefan Walzer-Goldfeld, research assistant, Amherst College, Fall 2020 – Ongoing Chloe Wohlgemuth, research assistant, Amherst College, Fall 2020 – Ongoing Maryam Abuissa, student intern, Amherst College, Summer 2021 Margaret Drew, student intern, Amherst College, Summer 2020 Zhiyuan Jia, research assistant, Amherst College, Summer 2019 Conrad Kuklinsky, research assistant, Amherst College, Spring 2019 – Fall 2020 Cyrus Cousins, research intern, Labs team, Two Sigma Investments, Summer 2018 Sacha Servan-Schreiber, research assistant, Brown University, Spring – Fall 2018

SERVICE TO THE SCIENTIFIC COMMUNITY

Editorial Boards

Data Mining and Knowledge Discovery

Machine Learning (Guest editorial board for ECML PKDD '21, '20, '19)

Organizing Committees

SIAM SDM'22 (Program Committee Co-Chair)

SIAM SDM '21 (Tutorial Chair)

SIAM SDM '20, '19 (Doctoral Forum Co-chair)

SIAM SDM '18 (Sponsorship Co-chair)

Foundations of Learning from Data Workshop (Bertinoro, Italy, September 2018)(Co-Organizer)

Program Committees

AAAI '20, '19

ACM CIKM '21,'20, '19, '18, '17, '16, '15, '14

ACM KDD '21 (Senior PC), '20, '19, '18, '17 (Senior PC), '16, '15

ACM WSDM '22 (Senior PC), '21, '20, '19, '17

ECML PKDD '21, '20, '19, '18, '17, '16

Grace Hopper '18, '16

ICML '19

IEEE ICDE '18, '17

IEEE ICDM '21 (Area Chair), '20, '19, '18 '16

IJCAI '19

NetSci '20, '19

NeurIPS '21, '20, '19

SIAM SDM '21 (Senior PC), '20, '19

WWW '22 (Senior PC), '21 (Senior PC), '20, '19, '18, '17, '16

Journal Reviewing

ACM Transactions on Database Systems (TODS)

ACM Transactions on Information Systems (TOIS)

ACM Transactions on Knowledge Discovery from Data (TKDD)

Data Mining and Knowledge Discovery (DMKD/DAMI)

Discrete Applied Mathematics (DAM)

Engineering Applications of Artificial Intelligence (EAAI)

Expert Systems with Applications (ESWA)

Journal of Machine Learning Research (JMLR)

Journal of Parallel and Distributed Computing (JPDC)

Knowledge and Information Systems (KAIS)

IEEE Access

IEEE Open Access Journal of the Computer Society (OJCS)

IEEE Transactions on Knowledge and Data Engineering (TKDE)

IEEE Transactions on Network Science and Engineering (TNSE)

IEEE Transactions on Parallel and Distributed Systems (TPDS)

IEEE Transactions on Services Computing (TSC)

Information Science (INS)

Machine Learning (Mach. Learn.)

PeerJ Computer Science

PLOS ONE

The Computer Journal

VLDB Journal (VLDBJ)

The World Wide Web Journal (WWWJ)

Conference Reviewing

The list does not include reviews done as Program Committee member

LATIN'20, STACS'20, MFCS'17, SODA'17, ISAAC'15, SIAM SDM'15, IEEE ICDE'15, DISC'14, ACM WSDM'14, WWW'14, ICALP'14, IEEE BigData'13, MFCS'13, ACM WSDM'13, IEEE IPDPS'12, ACM ICS'12, RANDOM'11

Conference Research Session Chair

SDM '21 – Foundations II

IEEE ICDM '20 – Graph Mining II

ACM KDD '20 – Data Mining Methods

WWW'20 - Social Network Analysis III

SDM '19 - Patterns

ACM KDD '18 – Unsupervised Learning II

ACM KDD '17 - Graphs I

ACM KDD '16 - Graphs I

IEEE ICDM '16 – Theory

ECML PKDD '16 – Graphs and Social Networks 1

WWW '16 – Social Networks and Graph Analysis 1

ACM KDD '15 - Social and Graphs 4

Grant Reviewing

NSF SBIR/STTR Program

Sigma Delta Epsilon (Graduate Women in Science) National Fellowship

Grace Hopper Conference Scholarship 2016, 2017

DEPARTMENTAL / UNIVERSITY SERVICE

Data Science Initiative Working Group, Amherst College – Dept. Representative, 1/2011 – ongoing

Graduate Student Council, Brown University – President, 4/2011 – 12/2012

ADDITIONAL TRAINING

2014 Brown University Harriet W. Sheridan Center for Teaching and Learning Teaching Certificate I: Reflective Teaching

2012 Summer School on Massive Data Mining, IT University, Copenhagen, Denmark

PROFESSIONAL MEMBERSHIPS

Association for Computing Machinery (ACM), 2012 – present

Special Interest Group on Knowledge Discovery from Data (SIGKDD)

Special Interest Group on Management of Data (SIGMOD)

Special Interest Group on Algorithms and Computation Theory (SIGACT)

Institute of Electrical and Electronic Engineers (IEEE), 2012 – present IEEE Computer Society

Society for Industrial and Applied Mathematics (SIAM), 2012 – present

SIAM Activity Group on Data Mining and Analytics (SIAG/DMA)

The latest revision of this CV is available from http://matteo.rionda.to/MatteoRiondato-CV.pdf This revision was created on September 15, 2021